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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/457,765	12/10/1999	HAROLD M. MOODY	PM265189	8046
909 7	590 07/28/2004	EXAMINER		INER
PILLSBURY WINTHROP, LLP P.O. BOX 10500 MCLEAN, VA 22102			MELLER, MICHAEL V	
			ART UNIT	PAPER NUMBER
,			1654	

DATE MAILED: 07/28/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
,	09/457,765	MOODY ET AL.				
Office Action Summary	Examiner	Art Unit				
	Michael V. Meller	1654				
The MAILING DATE of this communication a Period for Reply	ppears on the cover sheet with the o	correspondence address				
A SHORTENED STATUTORY PERIOD FOR REF THE MAILING DATE OF THIS COMMUNICATION - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a - If NO period for reply is specified above, the maximum statutory perion - Failure to reply within the set or extended period for reply will, by state Any reply received by the Office later than three months after the may earned patent term adjustment. See 37 CFR 1.704(b).	N. 1.136(a). In no event, however, may a reply be tile eply within the statutory minimum of thirty (30) day od will apply and will expire SIX (6) MONTHS from tute, cause the application to become ABANDONE	mely filed ys will be considered timely. Ithe mailing date of this communication. ED (35 U.S.C. § 133).				
Status						
1)⊠ Responsive to communication(s) filed on 16	April 2004.					
·= · ·=						
, <u> </u>						
Disposition of Claims						
4) ☐ Claim(s) 1-4,6,7 and 14-17 is/are pending in 4a) Of the above claim(s) is/are withdrest is/are allowed. 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-4, 6, 7, 14-17 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and	rawn from consideration.					
Application Papers						
9) The specification is objected to by the Examiner.						
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority docume 2. Certified copies of the priority docume 3. Copies of the certified copies of the priority docume application from the International Bure * See the attached detailed Office action for a li	ents have been received. Ents have been received in Applicationity documents have been received au (PCT Rule 17.2(a)).	ion No ed in this National Stage				
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	4)	r (PTO-413) ate				
 Information Disclosure Statement(s) (PTO-1449 or PTO/SB/0 Paper No(s)/Mail Date 	5) Notice of Informal F 6) Other:	Patent Application (PTO-152)				

Art Unit: 1654

DETAILED ACTION

The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

Claim Rejections - 35 USC § 112

Claims 1-4, 6, 7, 14-17 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention.

Claims 14-16 are not supported by the instant specification since there is no support for "charging a portion of the total amount of 6-APA to the reaction mixture at the beginning of the reaction such portion providing a concentration of dissolved 6-APA less than 300 mM and introducing the remainder of the total amount during the remainder of the acylation reaction". Since such support for this phrase cannot be found, this claim must be cancelled and thus claims 15-17 must also. What constitutes a portion? How much is that?

Claim 17 introduces "a part of said quantity of the 6-APA", what is that ?

There is no enablement for "a part". How much is "a part", 20 %, 50 %, etc. ?

Art Unit: 1654

When is the ampicillin to be formed by the acylation reaction done? There is no enablement for this in the specification. When would one know when this was achieved?

Claims 1-4, 6, 7, 14-17 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

In claim 1, it is not clear where, "maintaining the total concentration in the reaction mixture" has antecedant basis. There is also no antecedant basis for "the acylation reaction" in the claims.

It is also unclear how one can measure the "total concentration" of 6-APA and amicillin in the reaction mixture when the whole purpose is to produce the amicillin. One starts with starting materials and ends up with products. It appears applicant is defining the reaction conditions by defining them in terms of the amount of starting material and ending material (product) which is confusing. Nowhere in the specification can such a description of this be found.

In step iii), the same problem of antecedant basis of the "total quantity of phenylglycine derivative" as stated above. Further, it is confusing at what point in the reaction does the acylation occur and step ii). Applicant needs to present claim 1 with definite steps in chronological order. The metering step is a definite

Art Unit: 1654

step not a "maintainance" step. Metering is a physical step whereas the total concentration being some amount is not.

In claims 2 and 4, it would be clearer if applicant stated that they occurred in step i) and step ii), respectfully.

Claims 14-16 are confusing since it is not clear what a "portion" is. The term, "charged" is also confusing. What exactly is applicant trying to claim?

Further, how much is a portion? 75 % of the total? 2% of the total? This claim is very confusing to the point of being meaningless.

Claim 17 introduces "a part of said quantity of the 6-APA", what is that ? How much is "a part", 20 %, 50 %, etc. ?

When is the ampicillin to be formed by the acylation reaction done?

When would one know when this was achieved?

Claim Rejections - 35 USC § 103

Claims 1-4, 6, 7, 14-17 are rejected under 35 U.S.C. 103(a) as being unpatentable over WO 92/01061 taken with WO 95/03420.

Applicant argues that the references do not show the metering step. The references are clear in that the same amount of starting materials and ending materials are used and yielded as in the claimed process. To add slowly and in a meticulous manner as in metering is well known in the art and is fully

Art Unit: 1654

contemplated by the references. One of ordinary skill in the art reading the references would have fully realized that adding in the ingredients slowly in a meticulous fashion would work well. It is simply the choice of the artisan in an effort to optimize the results to add the ingredients in such a fashion. In fact, one would be motivated to do so since adding the ingredients in slowly gives them ample time to react properly with one another and produce a better yield of product.

Applicant argues that one of ordinary would not be motivated to add the reactants by metering them in partially. This is simply not well taken by the examiner. The references clearly wanted to yield the best results possible. To add the reactant in a step wise fashion makes perfect sense since one would want ample time for the reactants to react with one another.

Applicant also argues that they have yielded unexpected results. It is not clear where these results have come from nor that they are based in fact.

Applicants must present the results in a declaration by the inventors with a clear explanation of the relevance of each part of the side-by-side comparisons and where such support can be found in the instant specification.

Art Unit: 1654

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Michael V. Meller whose telephone number is 571-272-0967. The examiner can normally be reached on Monday thru Thursday: 9:30am-6:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Bruce Campell can be reached on 571-272-0974. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Art Unit: 1654

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Michael V. Meller Primary Examiner Art Unit 1654

MVM